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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/826,238	04/16/2004	Alison B. Lukacsko	94902.256172	9635
71398 STEFAN KIRC	7590 01/22/201 CHANSKI	EXAMINER		
	P 2049 CENTURY PA	JAGOE, DONNA A		
= = =	21ST FLOOR LOS ANGELES, CA 90067			PAPER NUMBER
			1619	
			NOTIFICATION DATE	DELIVERY MODE
			01/22/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

SJKIRCHANSKI@VENABLE.COM AMA02@VENABLE.COM SBP01@VENABLE.COM

		Арр	lication No.	Applicant(s)	Applicant(s)			
Office Action Summary			326,238	LUKACSKO, ALI	LUKACSKO, ALISON B.			
			miner	Art Unit				
		Doni	na Jagoe	1619				
Period fo	The MAILING DATE of this communion or Reply	cation appears o	on the cover sheet w	rith the correspondence a	ddress			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAN IS IN 1975	AILING DATE C of 37 CFR 1.136(a). In Inication. utory period will apply will, by statute, cause to	OF THIS COMMUNI on no event, however, may a or and will expire SIX (6) MOI the application to become A	CATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed	d on 05 Novemi	ber 2009					
•	•	b)⊡ This actio						
′=		<i>'</i> —		ters prosecution as to th	e merits is			
٠,١) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	,	, ,	,				
		application						
•	Claim(s) <u>45-49</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.							
•	Claim(s) <u>45-49</u> is/are rejected.							
	Claim(s) 45-45 is/are objected to.							
•	Claim(s) are subject to restrict	ion and/or elect	tion requirement					
0)[Claim(s) are subject to restrict	ion and/or elec-	non requirement.					
Applicati	on Papers							
9)	The specification is objected to by the	Examiner.						
10)	The drawing(s) filed on is/are:	a) <u></u> accepted	or b) ☐ objected to	by the Examiner.				
	Applicant may not request that any object	tion to the drawin	ıg(s) be held in abeya	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including	the correction is i	required if the drawing	g(s) is objected to. See 37 C	FR 1.121(d).			
11)	The oath or declaration is objected to	by the Examine	er. Note the attache	d Office Action or form P	TO-152.			
Priority ເ	ınder 35 U.S.C. § 119							
	Acknowledgment is made of a claim fo ☐ All b)☐ Some * c)☐ None of:	or foreign priori	ty under 35 U.S.C.	§ 119(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internation	nal Bureau (PC	T Rule 17.2(a)).					
* S	See the attached detailed Office action	for a list of the	certified copies not	received.				
Attachmen			_					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT	-O 048)		Summary (PTO-413) (s)/Mail Date				
	e of Dransperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO/SB/08)	0-940)		Informal Patent Application				
_	r No(s)/Mail Date		6) 🔲 Other:	·				

DETAILED ACTION

Claims 45-49 are pending in this application.

Applicants' arguments filed November 5, 2009 have been fully considered but they are not deemed to be persuasive. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 45-49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wassenaar U.S. Patent No. 7,060,289 B2 in view of Merck Manual (U).

Wassenaar teaches the method of reducing excessive sweating and minimizing side effects (see abstract) comprising applicant of a topical formulation of glycopyrrolate (an anticholinergic quaternary amine) in a concentration that is from 0.25% to 6% (column 8, lines 29-30). It does not teach the method for killing or inhibiting the growth of microorganisms responsible for fungal infection and non-pathological body malodor. Wassenaar teaches a case study of a patient with excessive sweating of the forehead and groin that resulted in a facial rash and fungal infection. After two weeks of topical application (to the skin surface) the chronic fungal infection of his groin and facial rash had both improved (column 8, lines 32-49).

Merck Manual teaches that athlete's foot, a fungal infection commonly grows in the warm moist areas between the toes.

In holding an invention obvious in view of a combination of references, there must be some suggestion, motivation or teaching in the prior art that would have led a person of ordinary skill in the art to select the references and combine them in the way that would produce the claimed invention. This motivation may flow from the prior art references themselves, the knowledge of one of ordinary skill in the art, or, in some cases, from the nature of the problem to be solved. Here, filtered through the nature of the problem to be solved, the prior art disclosed that moist conditions of the skin leads to fungal infection, and that this problem can be addressed by the application of glycopyrrolate solution in a concentration of 0.25-6%. Thus, inhibition of microorganisms and fungus would result in the application of the glycopyrrolate solution, and in the above case study, a fungus infection could be resolved.

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Regarding the concentration of the formulation instantly claimed, the amount of glycopyrrolate of Wassenaar et al. is between 0.25% and 6 % which is encompassed by the instantly claimed 0.0001% to about 20 % or from about 0.05% to about 5%. "[A] prior art reference that discloses a range encompassing a somewhat narrower claimed range is sufficient to establish a prima facie case of obviousness."

In re Peterson, 315 F.3d 1325, 1330, 65 USPQ2d 1379, 1382-83 (Fed. Cir. 2003). See also *In re Harris*, 409 F.3d 1339, 74 USPQ2d 1951 (Fed. Cir. 2005).

It would have been made obvious to one of ordinary skill in art at the time it was made to employ the ACQA, glycopyrrolate, to inhibit growth of microorganisms responsible for fungal infection and malodor motivated by the teaching of Wassenaar, who teaches the method of reducing excessive sweating and minimizing side effects (see abstract) comprising applicant of a topical formulation of glycopyrrolate (an anticholinergic quaternary amine) in a concentration that is from 0.25% to 6% (column 8, lines 29-30) and the teaching of Merck Manual that teaches that athlete's foot fungus is a fungal infection that commonly grows in warm moist areas. Applicant asserts that in the instant invention, Applicant was the first to recognize the anti-fungal properties of this class of compounds. In response, Wassenaar teaches the same antifungal properties of glycopyrrolate, the ultimate species selected in the genus of anticholinergic quaternary amines instantly claimed.

Thus the claims fail to patentably distinguish over the state of the art as represented by the cited references.

Accordingly, for the above reasons, the claims are deemed properly

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rejected and none are allowed.

Response to Arguments

Applicant asserts that Wassenaar does not teach a dermatophytic fungus. Applicant's specification defines "dermatophytic fungus" as a chronic fungal infection of the **skin**, hair, nails by dermatophytes. (paragraphs 11-12). Since the groin area is covered in skin, it would be encompassed in Applicant's definition of "dermatophytic fungus". Applicant states that "at the time of the invention ACQAs were not known to kill or inhibit either bacteria or fungi and that Wassenaar showed that reducing excess sweating resulted in an improvement of a fungal infection of the skin". In response, Wassenaar clearly states in case study No 1 that the patient had excessive forehead and groin sweating resulting in a facial rash and fungal infection. Topical glycopyrrolate was applied in concentrations of 1% and 1.5% whereby the chronic fungal infection improved. When a chronic fungal infection improves, one having ordinary skill in the art would term this improvement as killing or inhibiting the fungal infection. Deeper understanding of the mechanism of action does not render the result and the methods steps employed any different. The art teaches topically applying glycopyrrolate to an area with fungal infection, whereafter the fungal infection improves. Applicant states that one of ordinary skill in the art would understand that the improvement in the fungus infection was attributable to the drying effect of the treatment and does not provide support for this allegation. In response, one having ordinary skill in the art would recognize that fungal infections are not cured by "drying" the area. Fungal infections

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are cured by antifungal medications and noted in the Merck Manual reference (see page 2). Further, as stated above, further elucidation of the mechanism of action does not alter the steps and results taught by the art. Applicant asserts that Wassenaar provides no teaching regarding malodor and only teaches a reduction in moisture and "possible reduction in a fungus infection". In response, anyone having an intact olfactory sense would immediately detect malodor in patients having, for example tinea pedis (athletes foot).

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donna Jagoe whose telephone number is (571) 272-0576. The examiner can normally be reached on Monday through Friday from 8:00 A.M. - 4:30 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne (Bonnie) Eyler can be reached on (571) 272-0871. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/YVONNE L. EYLER/ Supervisory Patent Examiner, Art Unit 1619 Donna Jagoe /D. J./ Examiner Art Unit 1619

January 6, 2010